REFERENCES

1. **Ajayan, P.M.; Schadler, L.S.; Braun, P.V. 2003.** *Nano composite Science and Technology;* Wiley: New York, NY, USA, p. 112.
2. **Arkey 2007** "Defect analysis and Productivity improvement in forging industries"-
3. **C.H. Tillhagen, Järnet och människorna, Gummessons Tryckeri AB, Falköping,**. P. **Panjan, et al., 1981** Improvement of hot forging tools with duplex treatment, Surf.Coat. Tech., 151-152, 2002, p. 505-509.
4. **C.J. Van Tyne and J. Walters-2007.** "Understanding geometrical forging defects"-
5. **F.B. Pickering, 1987.** The properties of tool steels for mould and die applications, Tool materials for molds and dies, Proceedings of an international conference, p.1-32.
6. **G. Bernhart, G. Mouliner, O. Brucelle, D. Delagnes,1998.** High temperature low cycle fatigue behaviour of a martensitic forging tool steel, Int. Journal of fatigue vol.21 pp.179-186.
7. **H.Sehitoglu, T.J. Smith, H.J. Maier, 2000.**Stress-strain response experiments and modelling. Thermo-mechanical fatigue behaviour of materials, 3rd vol. p.55-67.
8. **H. James Henning-2007.** "Defects in Hot Forging"-
9. **Heinemeyer, D.1976.** Investigations About the Durability of Closed-Die Forming Dies (in German),Thesis, University of Hannover,
10. **Jordan, J.; Jacob, K.I.; Tannenbaum, R.; Sharaf, M.A.; Jasiuk, I.2005.** Experimental trends in polymer nano composites - A review. Mater. Sci. Eng. A 393, 1-11.
11. **J.R. Davis (Ed.), 1995.** ASM Speciality Handbook, Tool Materials, ASM International, Materials Park, Ohio, p. 251.
12. **J.L. Chaboche, 1989.** *Constitutive equations for cyclic plasticity and cyclic viscoplasticity,* International Journal of Plasticity. Vol. 5, p. 247-302
13. **K.D. Fuchs, 2002.** Hot-work tool steels with improved properties for die casting application, Proceedings of the 6th International Conference on Tooling, Karlstad, p.15-22.

14. **Kup, B., and E. Walter,1984.** Process Monitoring and Control for Cold Bulk Forming (in German), *Werkstatt u. Betr.* 117, pp.601-664.
15. **Kendall, A.L., and A.K. Sheikh, 1979.**Guidelines for the Application of Probabilistic Models in the Replacement Policies, *ASME Transactions*, pp.124-132.
16. **Lewis, E.E.1996.** *Introduction to Reliability Engineering*, John Wiley & Sons,
17. **L.J.D. Sully, In: 1988.** Metals handbook, 9th ed., vol. 15, ASM International, Metals Park, Ohio, p. 286.
18. **Mitra, A.,1993.** *Fundamentals of Quality Control and Improvement*. Macmillan Publishing Company, New York,
19. **N. Tsuji, G. Abe, 1996.** High temperature low cycle fatigue behaviour of a 4.2Cr-2.5Mo- V-Nb hot work tool steel, Journal of Mat. Sci. let. Vol.15, p.1251-1254.
20. **Nehl, E., 1986.** Measurement of Tool Wear in Cold and Semi-Hot Forming With Radionuclides (inGerman), *Berichte aus dem Institut für Umformtechnik der Universität Stuttgart*, Nr. 82,Berlin, Springer
21. **Osman, M.A.; Rupp, J.E.P.; Suter, U.W 2005.**Effect of non-ionic surfactants on the exfoliation and properties of polyethylene-layered silicate nano composites. *Polymer*, *46*, 8202-8209.
22. **P. J. Armstrong, and C.O. Fredrick, 1966.** A mathematical representation of the multiaxel Baushinger effect, CEGB Report RD/B/N731.
23. **R.W. Neu, H. Sehitoglu, 1989.** *Thermomechanical Fatigue, Oxidation, and Creep, Part 2*, Life Prediction, Metalurgical Transactions A, vol. 20A,
24. **R.W. Neu, H. Sehitoglu, 1989.** Thermomechanical Fatigue, Oxidation, and Creep, Part1, Damage mechanisms, Metalurgical Transactions A, vol. 20A.
25. **Reiss, W.1987.** Tool Life in Solid Forward Extrusion, *Annals of the CIRP*, 36(1), pp.155-160.
26. **Sanchez, C.; Julián, B.; Belleville, P.; Popall, 2005.** M. Applications of hybrid organic-inorganic nano composites. J. Mater.Chem. 15, 3559-3592.
27. **S. Bari, and T. Hassan, 2001.** Kinematic hardening rules in uncoupled modelling for multiaxial ratcheting simulation, Int. Journal of Plasticity, 17, 885-905.
28. **S. Suresh**, **1998** *Fatigue of materials*, Cambridge, England, 7. S.L. Semiatin, In: Metals handbook, 9:th ed., vol. 14, ASM International,

29. **S. Kalpakjian,1982.** In: Tool die failures, American Society for Metals, Materials Park, Ohio,
30. **Sheikh, A.K.,1982.** Reliability of Cutting Tools, Towards Improved Performance of Tool Materials,*The Metal Society*, London, pp.195-204.
31. **Taylan Altan, Gracious Ngaile, Gangshu Shen-2005.** "Cold and Hot Forging- Fundamentals and Applications", Handbook by ASM International-
32. **Uppsala, 2003.*11*** "On tool failure in die casting",
33. **Weiergräber, M.1981.** Tool Wear in Bulk Metal Forming (in German), *Berichte aus dem Institut fürUmformtechnik der Universität Stuttgart*, Nr. 73, Berlin, Springer
34. **Wütrich, C., and G. Schröder,1980**. Application of Methods in Fracture Mechanics for Service Life Improvement of Metal Forming Tools (in German), Z. Werkstofftech. pp 417-420.
35. **Z. Zhang, D. Delagnes and G. Bernhart, 2002.** Anisothermal cyclic plasticity modelling of martensitic steels, International Journal of Fatigue. Vol. 24. p. 635-648,